#### **AMENDMENTS TO THE CLAIMS**

## Claim 1 (previously presented)

A colloidal dispersion, in an organic solvent, of microfibrils and/or microcystal of a fibrillar organic substance selected from the group consisting of cellulose, chitin, and polysaccharides containing in addition at least one compound possessing a hydrophilic part and a hydrophobic part.

## Claim 2 (currently amended)

A dispersion of claim 1, wherein the compound possessing a hydrophilic part and a hydrophobic part is selected from the group consisting of surfactant, a stabilizing polymer, a co-surfactant and mixtures thereof, especially and a mixture of surfactant and eo surfactant.

## Claim 3 (previously presented)

A dispersion of claim 1 of microfibrils and/or microcrystals of cellulose.

## Claim 4 (previously presented)

A dispersion of claim 1 wherein the organic solvent has a dielectric constant that is less than or equal to approximately 37.5, and/or the organic solvent is selected from the group consisting of

- aliphatic hydrocarbons,
- aromatic hydrocarbons,
- chlorine-containing solvents,

- ketones having 3 to 10 carbon atoms,
- polymerizable vinylic compounds,
- epoxides,
- primary, secondary or tertiary amines,
- alkyl acetates having 1 to 10 carbon atoms,
- ethers with an alkyl chain having of 1 to 20 carbon atoms or an aromatic chain,
- aldehydes, carboxylic acids and/or their acylated derivatives and anhydrides, the polyacids with an alkyl chain having 1 to 20 carbon atoms or an aromatic chain,
- primary, secondary or tertiary alcohols, with aliphatic chain of 1 to 10 carbon atoms, and/or aromatic chain,
- tetrahydrofuran (THF), pyridine, dimethylformamide, (DMF), dimethylacetamide (DMAc),
  - mineral and/or organic oils, of synthetic or natural origin, or mixtures thereof.

## Claim 5 (previously presented)

A dispersion of claim 1 wherein the quantity of cellulose varies from about 0.01 wt % to about 50 wt % relative to the total weight of the dispersion.

# Claim 6 (previously presented)

A dispersion of claim 1 wherein the compound possessing a hydrophilic or hydrophobic part is:

- (a) a surfactant possessing:
- a hydrophilic part capable of being adsorbed on the microfibrils and/or microcyrstals of the compound selected from the group consisting of cellulose, chitin and polysaccharides and containing oxyethylene groups,
- a hydrophobic part, containing a carbon chain of at least 6 carbon atoms, aromatic or non-aromatic, and capable of interacting with the solvent,

the said surfactant being selected from the group consisting of cationic surfactants,

anionic surfactants,

amphoteric surfactants possessing a quaternary ammonium group and an anionic phosphoric group, and

neutral surfactants,

(b) or, a stabilizing polymer possessing from about 5 to about 200 hydrophilic units and from about 10 to about 200 hydrophobic units.

## Claim 7 (previously presented)

A dispersion of claim 2 wherein the co-surfactant possesses:

- a hydrophilic part that is compatible with the hydrophilic part of the compound possessing a hydrophilic part and a hydrophobic part, and
- a hydrophobic part that is compatible with the hydrophobic part of the compound possessing a hydrophilic part and a hydrophobic part,

- the co-surfactant making it possible, for the microfibrils and/or microcrystals of the fibrillar organic substance as defined in claim 1 to be rendered compatible with the organic solvent,

the said co-surfactant being selected from the group consisting of alcohols having 4 to 18 carbon atoms, carboxylic acids having 4 to 18 carbon atoms, aldehydes having from 4 to 18 carbon atoms or amines having from 4 to 18 carbon atoms.

# Claim 8 (previously presented)

A dispersion of claim 1 containing:

- cellulose microfibrils and/or microcrystals, in a quantity varying from about 0.01 wt % to about 50 wt % relative to the total weight of the dispersion,
- an organic solvent in a quantity varying from about 50 wt % to about 99.9 wt % relative to the total weight of the dispersion,
- a surfactant in a quantity varying from about 0.01 wt % to about 50 wt % relative to the total weight of the dispersion,
- and optionally a co-surfactant in a quantity varying from about 0 wt % to about 20 wt % relative to the total weight of the dispersion.

# Claim 9 (previously presented)

A dispersion of claim 1 wherein it exhibits at least one of the following properties:

- it does not form aggregates (it is non-flocculent),
- it is birefringent in shear, and
- it is stable for periods ranging from at least one minute to at least 12 months.

# Claim 10 (previously presented)

A method of preparation of a dispersion of claim 1 comprising:

- (1) forming an aqueous dispersion of microfibrils and/or microcrystals of a fibrillar organic substance selected from the group consisting of cellulose, chitin, and polysaccharide with a compound possessing a hydrophilic part and a hydrophobic part selected from the group consisting of a surfactant, a stabilizing polymer, a co-surfactant or mixtures thereof,
- (2) removing the water from the aqueous dispersion as obtained in the preceding stage to obtain a dry mixture of surfactant and/or of stabilizing polymer and optionally co-surfactant, and a fibrillar organic substance selected from the group consisting of cellulose, chitin, and polysaccharides,
- (3) and dispersing the mixture as obtained in the preceding stage in an organic solvent.

## Claim 11 (previously presented)

The method of preparation of claim 10, wherein

(1) an aqueous dispersion of microfibrils and/or microcrystals of cellulose is mixed with a surfactant selected from the group consisting of BNA,

polyoxyethylene sorbitan trioleate and didecyidimethyl ammonium bromide, the weight ratio between the said surfactant and said microfibrils and/or microcrystals of cellulose varying from about 0.1:1 to about 20:1, to obtain an aqueous colloidal dispersion of microfibrils and/or of microcrystals of cellulose,

- (2) the water is eliminated from the aqueous dispersion as obtained in the preceding stage to obtain a dry mixture of surfactant and cellulose, the said mixture containing from about 5 wt % to about 95 wt % of surfactant relative to the total weight of the mixture, and from about 5 wt % to about 95 wt % of cellulose relative to the total weight of the mixture,
- (3) the mixture as obtained in the preceding state is dispersed in an organic solvent as defined in claim 4,

until a dispersion of cellulose microfibrils and/or microcrystals is obtained for which the percentage by weight of adsorption between the said surfactant and the said cellulose microfibrils and/or microcrystals varies from about 0.1 to about 20.

Claim 12 (cancelled)

Claim 13 (previously presented)

An organic solvent having a dielectric constant that is less than or equal to approximately 37.5 and/or the organic solvent is selected from the group consisting of

- aliphatic hydrocarbons,
- aromatic hydrocarbons,
- chlorine-containing solvents,
- ketones having 3 to 10 carbon atoms,
- polymerizable vinylic compound,
- epoxides,
- primary, secondary or tertiary amines,
- alkyl acetates having 1 to 10 carbon atoms,
- ethers with an alkyl chain having 1 to 20 carbon atoms or an aromatic chain,
- aldehydes, carboxylic acids and/or their acylated derivatives and anhydrides, the polyacids with an alkyl chain having 1 to 20 carbon atoms or an aromatic chain,
- primary, secondary or tertiary alcohols, with an aliphatic chain having 1 to 1-carbon atoms, and/or an aromatic chain,
- tertrahydrofuran (THF), pyridine, dimethylformamide (DMF), dimethylacetamide A(DMAc),
  - mineral and/or organic oils of synthetic or natural origin, or mixtures thereof,

wherein it is thickened and/or viscous, and containing:

- microcrystals and/or microfibrils of a fibrillar organic substance selected from the group consisting of cellulose, chitin, and polysaccharides,
- a compound possessing a hydrophilic part and a hydrophobic part selected from the group consisting of a surfactant, a stabilizing polymer, a co-surfactant and mixtures thereof.

# Claims 14-16 (cancelled)

## Claim 17 (previously presented)

A colloidal dispersion of claim 1 wherein the polysaccharide is selected from the group consisting of  $\beta$  1  $\rightarrow$  3 glucan,  $\beta$  1  $\rightarrow$  3 xylan and  $\beta$  1  $\rightarrow$  4 mannan.

## Claim 18 (previously presented)

A colloidal dispersion of claim 2 wherein the compound possessing a hydrophilic part and a hydrophobic part is a mixture of surfactant and co-surfactant.

## Claim 19 (previously presented)

In a gel, liquid crystal or material containing cellulose microfibrils and/or microcrystals, the improvement comprising using an aqueous dispersion of claim 1.

# Claim 20 (previously presented)

In a preparation of a material containing microfibrils and/or microcrystals of cellulose, the improvement comprising using a dried mixture of the composition of claim 19.